zintellect
climb higher

Opportunity Title: Structure and Energetics of Planetary Atmospheres
Opportunity Reference Code: 0010-NPP-MAR25-JPL-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0010-NPP-MAR25-JPL-PlanetSci

How to Apply All applications must be submitted in Zintellect

Please visit the NASA Postdoctoral Program website for application instructions and requirements: How to Apply | NASA Postdoctoral Program (orau.org)

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 3/1/2025 6:00:59 PM Eastern Time Zone

Description **About the NASA Postdoctoral Program**

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

This research combines the acquisition, reduction and analysis of remote-sensing data on planetary atmospheres with theoretical models of structure and dynamics. Much of the data involves infrared imaging and spectroscopy, and data have been acquired from experiments on spacecraft such as Galileo, Cassini, Hubble and Spitzer. Observations are also acquired from a vigorous ground-based astronomy program emphasizing the near and middle infrared, but including other spectral regions. They have involved traditional, remote or service observing at NASA's Infrared Telescope Facility, Palomar, Keck, Gemini, Subaru and the Very Large Telescope. These observations have focused on deriving thermal structure, bulk and trace constituent abundances, and cloud properties. This work on data acquisition and analysis is combined with more recent efforts to simulate atmospheric dynamics and model energy transfer mechanisms in these atmospheres, as constrained by our acquired data. Opportunities exist over this broad range of research.

Burgdorf, G. S. Orton, G. R. Davis, S. D. Sidher, H. Feuchtgruber, M. H.

Griffin, and B. M. Swinyard. 2003. Neptune's far-infrared spectrum from the ISO Long-Wavelength and Short-Wavelength Spectrometers. Icarus 164}, 244-253.

G. S. Orton and P. A. Yanamandra-Fisher. 2005. Saturn's temperature field from high-resolution middle-infrared imaging. Science 307}, 696-701.

Opportunity Title: Structure and Energetics of Planetary Atmospheres
Opportunity Reference Code: 0010-NPP-MAR25-JPL-PlanetSci

Location:
Jet Propulsion Laboratory
Pasadena, California

Field of Science: Planetary Science

Advisors:
Glenn S. Orton
glenn.s.orton@jpl.nasa.gov
818-354-2460

Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States. A complete list of Designated Countries can be found at: https://www.nasa.gov/oiir/export-control.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

Questions about this opportunity? Please email npp@orau.org

Eligibility Requirements

- **Degree:** Doctoral Degree.